

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-6. (Cancelled)

7. (Currently Amended) An information system, comprising
an optical signal unit constructed and positioned to capture signals reflected back from at least one eye comprising the retina, said optical signal unit comprising a scanning detection unit constructed to at least partially capture a retinal reflex image of a natural scene ambient to said eye;
an information unit;
a wireless communication unit; and
an output unit constructed and arranged to provide information, at least partially obtained via said communication unit, in cooperation with said information unit as a function of said captured signals, wherein
said information system does not project electromagnetic radiation onto said ~~retina~~ eye in the course of said provision of information.

8. (Previously Presented) An information system, comprising
an optical signal unit constructed and positioned to capture signals reflected back from an eye comprising a retina, said optical signal unit comprising a scanning detection unit constructed to at least partially capture a retinal reflex image from said retina during a scanning operation and carrying out a less comprehensive capture of said retinal reflex image during another scanning operation;
an information unit;
a wireless communication unit; and

an output unit constructed and arranged to provide information, at least partially obtained via said communication unit, in cooperation with said information unit as a function of said captured signals, said output unit comprising a scanning projection device constructed to project at least part of said information onto said retina.

9.-12. (Cancelled)

13. (Currently Amended) An information system, comprising
a signal input unit constructed and positioned to capture at least two types of signals from an eye ~~respectively~~ chosen from the group of signal types consisting of signals emanating from said eye and signals that have been reflected back from said eye;

an information unit;

a wireless communication unit; and

an output unit constructed and arranged to providing information, at least partially obtained and/or provided via said communication unit, in cooperation with said information apparatus as a function of said captured signals, said output unit comprising a ~~seanning~~ projection device constructed to project at least part of said information onto the retina of said eye, wherein

one of said signals is an optical signal in a first spectral range and another of said signals is an optical signal in a second spectral range that does not overlap said first spectral range.

14. (cancelled)

15. (Currently Amended) The information system of claim 14 13 wherein said signal input unit includes a field-of-view capturing unit constructed to capture visible light from a field of view associated with the retina without

capturing a retinal reflex image thereof; and said output unit being suitable for providing said information in correlation with said captured visible light.

16.-20. (Cancelled)

21. (Previously Presented) The information system of claim 7, wherein said information system does not project electromagnetic radiation onto said retina.

22. (Currently Amended) The information system of claim 8, wherein said retinal reflex image is a reflex image of a natural scene ambient to said eye, and
said information system is configured and adapted to extract image information pertaining to said natural scene from said retinal reflex image.

23. (Currently Amended) The information system of claim 8, wherein said scanning projection device is constructed and arranged to project light onto said retina and said retinal reflex image comprises a portion of said projected light that has been reflected from said retina.

24. (Currently Amended) An information system, comprising:
an optical signal unit constructed and positioned to capture signals associated with an eye;
a wireless communication unit;
a camera constructed and arranged to capture optical signals from a natural scene ambient to said eye; and
an output unit, interfaced with said wireless communication unit, constructed and arranged to provide information using a correlation unit constructed to find suitable relationship between said captured signals and additional data, wherein

said optical signal unit is configured and adapted to at least partially capture a retinal reflex of a said natural scene ambient to said eye, and

said captured signals comprise said at least partially captured retinal reflex,

said information system is configured and adapted to extract image information pertaining to said natural scene from said retinal reflex image, and

said correlation unit is configured and adapted to determine a correlation between said captured optical signals and said extracted image information in said finding of said suitable relationship.

25.-26. (Cancelled)

27. (Previously Presented) The information system of claim 24, comprising an eye-tracking unit constructed and arranged to project light onto said eye, to capture a portion of said projected light that has been reflected from said eye and to determine, on the basis of said captured portion of light, an orientation of said eye, wherein said correlation unit is constructed and arranged to employ said determined orientation of said eye in finding said suitable relationship.

28. (Currently Amended) An information system, comprising:
an optical signal unit constructed and positioned to capture signals associated with an eye;
a wireless communication unit;
a camera constructed and arranged to capture optical signals from a natural scene ambient to said eye; and
an output unit, interfaced with said wireless communication unit, constructed and arranged to provide information using a correlation unit constructed to find suitable relationship between said captured signals and additional data, wherein

said optical signal unit is constructed and arranged to project light onto said eye and to capture a portion of said projected light that has been reflected from a retina of said eye and that is indicative of ~~retinal characteristics~~ physical retinal structures of said retina,

said information system is configured and adapted to extract information representative of said physical retinal structures from said captured portion of light.

said captured signals comprise said captured portion of light, and

said finding suitable relationship between said captured signals and additional data comprises determining, on the basis of ~~the retinal characteristics of which said captured portion of light is indicative~~ said extracted information, an orientation of said eye.

29. (Currently Amended) The information system of claim 28, wherein said optical signal unit is constructed and arranged to capture, from said eye, an ocular reflex of said natural scene ambient to said eye,
said information system is configured and adapted to extract image information pertaining to said natural scene from said captured ocular reflex,
and

said correlation unit is constructed and arranged to determine a correlation between said ~~captured ocular reflex~~ extracted image information and said captured signals in said finding of said suitable relationship.

30.-31. (Cancelled)

32. (New) The information system of claim 13, wherein said projection device is a scanning projection device.

33. (New) An information system, comprising:

a signal input unit constructed and positioned to capture at least two types of signals from an eye chosen from the group of signal types consisting of signals emanating from said eye and signals that have been reflected back from said eye;

an information unit;

a wireless communication unit; and

an output unit constructed and arranged to providing information, at least partially obtained and/or provided via said communication unit, in cooperation with said information unit as a function of said captured signals, said output unit comprising a projection device constructed to project at least part of said information onto the retina of said eye, wherein

at least one of said signals is an acoustic signal.

34. (New) The information system of claim 24, wherein said information system is configured and adapted to extract information representative of physical retinal structures of said retina from said retinal reflex image.

35. (New) An information system, comprising

an optical signal unit constructed and arranged to capture light that has been reflected from a retina of an eye and that is indicative of physical retinal structures of said retina;

an optical signal capturing unit constructed and arranged to capture light from a natural scene ambient to said eye without capturing light reflected from said eye; and

means configured and adapted for extracting information representative of said physical retinal structures from said light captured by said optical signal unit and for determining an orientation of said eye on the basis of said extracted information.

36. (New) The information system of claim 35, comprising:
a wireless communication unit, wherein
said information is at least partially obtained via said wireless communication unit.

37. (New) The information system of claim 35, comprising:
means configured and adapted for extracting image information pertaining to said natural ambient scene from said captured light; and
an output unit configured and adapted for providing information as a function of said extracted image information and said determined orientation of said eye.

38. (New) The information system of claim 37, comprising:
means configured and adapted for determining a true orientation of said eye relative to said ambient scene based on said determined orientation of said eye and said extracted image information.

39. (New) The information system of claim 37, wherein said output unit comprises a projection unit configured and adapted to project visible images into said eye.

40. (New) The information system of claim 35, wherein said optical signal unit and said optical signal capturing unit are provided in a predetermined spatial relationship to one another.

41. (New) The information system of claim 35, wherein said information system is configured and adapted to project no visible light onto said eye.

42. (New) The information system of claim 35, wherein said information system is configured and adapted to project no light onto said eye.

43. (New) The information system of claim 35, wherein said optical signal unit is constructed and arranged to project light onto said eye and to capture a portion of said projected light that has been reflected from a retina of said eye and that is indicative of physical retinal structures of said retina.

44. (New) The information system of claim 35, wherein said optical signal unit captures said light reflected from said retina via a scanning optical detection unit.

45. (New) An information system, comprising:

an optical signal capturing unit constructed and arranged to capture light from a natural scene ambient to said eye without capturing light reflected from said eye;

a projection unit, provided in a predetermined spatial relationship to said optical signal capturing unit, configured and adapted to project visible images into said eye; and

means configured and adapted for extracting image information pertaining to said natural ambient scene from said captured light, for determining an orientation of said projection unit relative to said natural ambient scene on the basis of said extracted image information and for controlling said projection unit such that said visible images are projected onto said eye in a manner perceived as being in registration with said natural ambient scene.

46. (New) The information system of claim 45, wherein said visible images comprise image information obtained from said captured light.